

ase Number Application Transcripts. Small Exhibits

GOVERNOR DAVID F. CARGO CHAIRMAN

	State of New Mexico	
(P il	Conservation Commission	
		STATE GEOLOGIU A. L. PORTER, J. JECRETARY - DINECTOR
	P. O. BOX 2000	
	August 20, 1968	

Mr. A. J. Losee Attorney at Law Post Office Box 239 Artesia, New Mexico 88210

Dear Sir:

LAND COMMISSIONER GUYTON B. HAYS MEMBER

> Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

> > Very truly yours,

Re:

Case No. Order No.

Applicant:

(Juli

3827

R-3474

Tri-Service Drilling Company

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Carbon copy of drder also sent to:

Hobbs OCC x _____ Artesia OCC _____ Aztec OCC _____ Other

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MAT OF THE HEARING CALLED BY TA OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 3827 Order No. R-3474

APPLICATION OF TRI-SERVICE DRILLING COMPANY TO DIRECTIONALLY DRILL, LEA COUNTY, NEW MEXICO.

ORDER OF THE CONMISSION

BY THE CONDUSSION:

This cause came on for hearing at 9 a.m. on August 7, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 20th day of August, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Tri-Service Drilling Company, is the owner and operator of the T. P. State Well No. 1 which has a surface location in Unit R at a point 2126 feet from the South line and 1887 feet from the East line of Section 1, Township 16 South, Range 38 East, NMPM, Lea County, New Mexico.

(3) That the subject well was originally drilled by a predecessor to a total depth of 13,140 feet to test the Devonian formation but was non-productive.

(4) That the evidence indicates the subject well as originally drilled cut a fault.

(5) That the applicant's immediate predecessor received authority to set a whipstock at approximately 10,347 feet in the

-2-CASE No. 3827 Order No. R-3474

subject well and to directionally drill in an east-northeasterly direction to bottom said well in the Devonian formation at a true vertical depth of approximately 13,000 feet at a point within a radius of 100 feet of a point in Unit Q 2160 feet from the South line and 1250 feet from the East line of said Section 1 in order to avoid cutting the aforesaid fault.

(6) That the applicant's immediate predecessor whipstocked the subject well to a subsurface location approximately 596.5 feet east and 181.5 feet north of said surface location at a true vertical depth of approximately 13,014 feet and encountered a small show of oil.

(7) That the applicant has set a whipstock in the subject well at approximately 10,500 feet and proposes to directionally drill in a southeasterly direction to bottom said well in the Devonian formation at a true vertical depth of approximately 13,000 feet and within a 50-foot radius of a point in Unit R 1826 feet from the South line and 1587 feet from the East line of said Section 1 in order to avoid cutting the aforesaid fault and to attack favorable position on the structure.

(B) That approval of the subject application will prevent the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Tri-Service Drilling Company, is hereby authorized to set a whipstock at approximately 10,500 feet in its T. P. State Well No. 1 and directionally drill in a southeasterly direction to bottom said well in the Devonian formation at a true vertical depth of approximately 13,000 feet at a point within a radius of 50 feet of a point in Unit R 1826 feet from the South line and 1587 feet from the East line of Section 1, Township 16 South, Range 38 East, NMPM, Lea County, New Mexico.

(2) That a continuous multi-shot directional survey shall be made of the well bore with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Commission, Box 2088, Santa Fe, New Mexico; and that the operator shall notify the Commission's Hobbs District Office of the date and time said survey is to be commenced. -3-CASE No. 3827 Order No. R-3474

(3) That Form C-105 shall be filed in accordance with Rule 1105 and the operator shall indicate thereon the true vertical depths in addition to measured depths.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary, including the future possible adjustment of the allowable assigned to the well, after notice and hearing.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO CONSERVITION COMMISSION

DAVID F. CARGO, man

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A. L. PORTER, Jr., Member & Secretary



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Case 3827 Leand 8-7-68 8-8-68. Rer. Grant - Dri - Service Pr. Co., permission to deviate their T.P. St. #1 - 2126 (51 1887/ E line sec. 1 - 165-38E, Lea Co., to w bottomed location in the. Dermian formation 1826/5+ 1587/ E liner of cer. 1. allow a 150' feading tolesance. Operator will be duilling tour the center of his acreage and will crowd no one class lease line. an Eastman multickof. mulpide that derectional survey shall be un and. upoited to commission within Aug following complition

Tri-Service Drilling Company

FIRST NATIONAL BANK BLOG. P. D. BOX 1785 TELEPHONE MU 4-2641 MIDLAND, TEXAS 79701

July 5, 1968

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M. W. BRANUM, PRESIDENT

CARL NEITHERCUTT, VICE-PRESIDENT

Pare 3827

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

spraual.

Tri-Service Drilling Company assumed operations of the T. P. State well No. 1 located in Unit J, 1887' from the east line and 2164' from the south line, Section 1, T-16-S, R-38-E, Lea County, New Mexico at July 5, 1968. The well had been drilled to a total depth of 13,014' and plugged in conformance with Conservation Commission rules.

Tri-Service plans to re-enter the well and clean out to a depth of approximately 11,570' and deviate the hole to a location approximately 300' east and 300' south of the surface location at an estimated total depth of 13,000'. We propose to commence operations on this well within the next week and understand that we proceed at our own risk.

We respectfully request that this matter be placed on your docket for hearing as soon as possible.

ruly, ours very xlle

WALTER D. JENKINS Production Superintendent

WDJ/dp

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cc: Mr. J. D. Ramey Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico

MAIN OFFICE (and

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Date 7-26-68

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August 7, 1968 - Examiner Hearing

CASE 3803 (Continued and readvertised)

Application of Gulf Gil Corporation for an amendment to Order No. R-3345, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3345, which authorized a waterflood project in its Stuart Langlie Mattix Unit Area, Langlie Mattix Pool, Lea County, New Mexico, to delete the water injection wells previously authorized in Unit M of Section 2, Units A, C, and I of Section 10, and Unit C of Section 11, all in Township 25 South, Range 37 East, and to authorize for water injection four wells at the following unorthodox locations in Section 10: a well 100' from the North line and 1650' from the West line; a well 100' from the North Line and 660' from the East line; a well 1315' from the North line and 100' from the West line; and a well 1420' from the South line and 100' from the East line. Applicant Applicant also seeks in the amenoment authority to convert three additional wells located in Units N and P of said Section 10 and Unit Picf said Section 11 to water injection. In the assence of objection, the case will be submitted and an order issued upon the evidence presented in said Case July 10, 1968.

Application of Eugene 2. Nearburg for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the open-hole interval from approximate 7965 feet to 8015 feet in his Magnolia Burt Federal Well No. 1 located in Unit P, Section 5, Township 8 South, Range 30 E st, Cato Field, Chaves County, New Mexico.

Application of Tri-Service Drilling Company to directionally drill, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its T. P. State Well No. 1 located 1887 feet from the East line and 2126 feet from the South line of Section 1, Township 16 South, Range 38 East, Lea County, New Mexico. Said well was drilled to a total depth of 13,014 feet and has subsequently been whipstocked to a location 596.5 feet east and 181.5 feet north of said surface location. Applicant proposes to set a whipstock at 11,570 feet and directionally drill to a depth of approximately 13,000 feet and to bottom said well in the Devonian formation at a point approximately 309 feet east and 300 feet south of its surface location.

Application of W. M. Gallaway for a non-standard gas proration unit, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 197.77-acre non-standard gas proration unit comprising the S/2 of Section 18, Township 23 North, Range 3 West, Ballard-Pictured Cliffs Gas Pool, Rio Arriba County, New Mexico, said unit to be dedicated to applicant's Apacne Well No. 1 located 835 feet from the South line and 875 feet from the East line of said Section 18.



CASE 3826:

-2-

CASE 3828:

T.P. State Well #1 Carvet surface location seems to be 1887. 2 feet EL and 2126.4FSL og Sec. 1 but your request abour 2164FSL will this make a diffuence in your batton ball locating

2164 2126 7-17-68 Mr. Jeakins og Tri State ky telepelione OK'd 2126FSL



MR. UTZ: Case 3827.

MR. HATCH: Case 3827. Application of Tri-Service Drilling Company to directionally drill, Lea County, New Mexico.

MR. LOSEE: A. J. Losee, Artesia, representing the

Applicant, and I have one witness, Mr. Jenkins.

(Witness sworn.)

MR. UTZ: Are there any other appearances? You may

proceed.

MR. LOSEE: If you will give us a second, we'll mark

these exhibits, Mr. Examiner.

(Whereupon, Applicant's Exhibits Numbers 1 through 5 were marked for identification.)

WALTER D. JENKINS

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. LOSEE:

- Q State your name, please?
- A I'm Walter Jenkins.
- Q Where do you live, Mr. Jenkins?
- A Midland, Texas.
- Q What is your occupation?
- A I'm Production Superintendent for Tri-Service Drilling

Company.

Q Have you previously testified before the Oil Conservation Commission in New Mexico?

A I have.

Q Now, this is the application of Tri-Service Drilling Company to whipstock the T. P. Well Number 1. Would you explain to the Examiner what has transpired in the drilling of this well up to this date?

A J. C. Williamson originally drilled the well as is shown on Exhibit 1 and the surrounding acreage, and the well cut up fault slightly south and -- or west of the surface location and went on the downthrown side of the fault and was dry.

Subsequently, Signal Oil and Gas Company took over the well and elected to whipstock it and went east, or mostly east, a little bit north, and recovered oif and water on drillstem test of the Devonian, approximately 500 feet east of the surface location.

Since then, Tri-Service Drilling Company has assumed operations and we want to attempt to go south and east, approximately 330 feet south and 330 feet -- or 300 feet south and east of the surface location in an attempt to establish up dip strike in to a southerly direction and effect a commercial completion in

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the development.

Q Please refer to what has been marked as Exhibit 1. A Exhibit 1 shows, is just a surface ownership plat showing the location of the well and the acreage which is committed to this, or is on farmout to Tri-Service Drilling Company for Devonian rights in this area.

It's approximately four, five miles south of the nearest Devonian production in the Medicine Rock Field.

Q And the acreage is colored in yellow or surrounded in yellow?

Yes.

Α

Q Actually, Tri-Service Drilling Company has been the drilling contractor on all of these operations, has it not?

A Yes.

Q Please refer to what has been marked as Applicant's Exhibit 2 and explain what is portrayed by this exhibit.

A Exhibit 2 is simply a survey plat showing the surface location and the bottom of the original hole or the J. C. Williamson hole and the top of the Devonian of minus 9381 as it shows on the plat to the southeast. Then the Signal whipstock is shown to the north and east and is designated "Signal."

And then we show our proposed bottom hole location to the south and the east which would be Location 1826 from the south and 1587 from the east of the section line. And, again, that's

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where we're aiming. It could be 100 feet either way or 50 feet either way from this proposed bottom hole location.

Ω Now this plat is actually of the southeast quarter of the southeast quarter of Section 1 in Township 16 South, Range 38 East.

A Yes.

Q It shows it to be 160 acres. Is Section 1 in this township irregular in size?

A It's an irregular section. You'd have to refer back to Exhibit 1 to see that is a non-standard section, but the southeast quarter is a standard 160.

Now, that section has got eight or 900 acres in it and then they got regular south of there. The northern sections of that township are long ones.

Q Please refer to what has been marked Exhibit 3, your structure map and explain what is reflected by this exhibit.

A Well, this exhibit shows the wells that have been drilled in the area, both to the east and and to the west and showing the top of the Devonian, subsea top of the Devonian, and this proposed structure map, as show, has been extrapolated from seismic data and what we are attempting to do is to prove strike up dip in a southerly direction and establish that the oil field is to the south, rather where we were, and that's our only purpose in whipstocking the well. Signal has -- we crossed the fault and you'll see we had a minus 9381 on the top of the Devonian, so we whipstocked it and got away from the fault and got a 9275. And from seismic information, we feel that there is a high to the south and from -it's just cheaper to start at 10,000 feet or 11,000 feet, rather than dig that much hole if we can establish a strike to the south, up dip, we'll drill additional wells in the area.

6

Q How did you establish or determine the existence of this fault?

A Well, I have an electric log --

Q Why don't you just explain what it is.

A -- on the top of the Devonian, and we cut a repeat section in the Mississippian, which is indicated from electric logs that we cut the same section twice, so we went on the downthrown side of the fault to the southwest location.

MR. UTZ: Cut it in the Mississippian?

THE WITNESS: In between the -- You have an area on both sides of the fault. It's not succintly defined as being one foot, but it tears up the beds on both sides for, I would hesitate to say exactly how far, twenty to thirty feet, but from about 11,005 to 12,006, we were in a faulted zone. And to pick the exact point of the fault would be a little bit difficult other than log interpretation indicates that we did repeat the section, the same section, twice. MR. UTZ: That section was in the Mississippian? THE WITNESS: It was in the Mississippian, between the Chester and the Mississippian.

Q Please refer to what's been marked as Exhibit 4, a schematic diagram of this well as it exists and as it is proposed and explain what is portrayed.

A Well, the color scheme, the yellow is the cement, the surface pipe, intermediate, and then where the first hole went and where it crossed the fault and got on the downthrown side; the hole to your right is portrayed as the Signal Well, which justit got oil and water on a drillstem test, got to the edge of the Devonian, and I say the one down through the middle we intended or we hope will be the Devonian and we'll get it high enough to effect a commercial completion.

Q Now, actually, this is -- to give a proper perspective, it ought to be three dimensional.

A I can't show three dimensional on one piece of paper. But as I say, the first hole went to the left and crossed the fault, and then Signal went to the right and we hope to go down the middle. It's actually -- Well, I can't show the three dimensional, anyway.

MR. UTZ: In connection with your Exhibit Number 2, I think it shows it pretty well. Q What was the drillstem on this Signal hole? A We cut the top seven feet of the Devonian and got 60 feet of oil and a little bit of drilling mud, so we cut 15 more feet and got 1,000 feet of oil and 4,000 feet of salt water, so we just hope we're close.

Q Please refer to what has been marked as Exhibit 5, the directional survey and explain the important points of this.

A The first survey was -- They were both run by Eastman and they are a point by point survey from the surface to total depth showing where the hole went and, again, I say the fault cannot be exactly defined, but it's in a -- if you will look at the graphical survey, it cut the fault. The first well cut the fault at a point at approximately Point Number 75, somewhere in that area, and this was the original survey on the first hole.

Q And this is the J. C. Williamson hole?

A This is the J. C. Williamson hole. Then Signal --Q Excuse me. Before you leave that, how far was it from the surface location of the well?

A About 148.81 feet south and 75.58 feet west. Then Signal assumed operations to the well, again did a point by point survey, and if you'll look past each individual point giving coordinates and deviation, the hole corrects and et cetera, they got out of the old hole at, well, a point about Number 55 and whipstocked the well to the northeast to a location 596.55 feet east and 181,52 feet north.

Ω Where do you propose to get out of the hole? A Well, the original application and the letter accompanying the original application said that we were going to avoid "unditional" or unnecessary delay. We were going to go ahead and start this program at our own risk and we intended to do it at about 11,001 and we lost some tools in the hole at 12,001 and came back up to 10,005 and, as I told -- or yesterday morning, we were at 11,915 and had 151 feet of right hole cut at a direction south, 70 degrees east.

9

Q Now, where do you intend that your bottom hole location will be?

A Well, we will run a continuous directional survey by Eastman to determin where the bottom of the hole is every 50 of 100 feet from now intil we reach our projected point of 300 feet south and east of the surface location. I mean, it will be done in the same manner that these Eastman previous -- these hole surveys were done.

Q So that, actually, your intended location would be 300 feet south and 300 feet east of the surface location --

A Yes.

Q -- which is 1587 feet from the east line and 1826 feet from the south line -- Right.

Q -- as shown by your Exhibit 2?

A Yes.

Α

Q In order to allow some tolerance, would you ask the Commission to give you a circle at that depth with a radius of 50 feet from that point, the circle with 100 feet in diameter?

A Well, definitely. It's a little bit hard to point them and land exactly where you want to. We're just trying to get in a general direction and then we will whipstock as necessary to approximate our recommended bottom hole location, but it's a little hard to hit right on the money.

Q And you will take these directional surveys as you drill an old well back?

A Yes, exactly as was done on the previous survey. Q And if any additional survey is requested in coming out of the hole, point by point survey, if you made a well, Tri-State Service would be willing to do that?

A Yes.

Q Mr. Jenkins, were Exhibits 1 through 5 prepared by you or under your supervision?

A They were prepared by me, yes.

MR. LOSEE: I have no further testimony at this

time.

10

MR. UTZ: Exhibits 1 through 5 will be entered into the record in this case.

> (Whereupon, Applicant's Exhibits Numbers 1 through 5, inclusive, were admitted in evidence.)

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Jenkins, if you miss your 50 foot circle you're requesting, the only damage that would be done would be that you might be less than 330 feet from a quarter-quarter section line, is that correct?

A Well, from our acreage, 1'd say it would be unfeasible that we'd land less than 1500 feet from the lease line.

In your opinion, this 50 feet is enough tolerance?

I'm sure that 50 feet is sufficient.

MR. LOSEE: Now, you're speaking of, actually, a 100

foot circle with a 50 foot radius, are you not?

THE WITNESS: Yes.

MR. UTZ: Are there any questions of the witness? He may be excused. Case will be taken under advisement.

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WITNESS	PAGE
WALTER D. JENKINS	
Direct Examination by Mr. Losee	1 ²² 2
Cross Examination by Mr. Utz	11

EXHIBITS

	Received in Evidence	
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through 5, inclusive.	2	1 1

STATE OF NEW MEXICO)) COUNTY OF BERNALILLO)

18

I, CHARLOTTE MACIAS, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability. Witness my Hand and Seal this 22nd day of September, 1968.

ss.

Notary Public

My Commission Expires: February 10, 1971.

> 146 hereby certify that the forgoning is a scorplete record of the prochedings in the Braziner hearing of Case 30.25.27, heard by no on lugar, 1965.

. Examiner Ref Merico OII Conservation Complacion

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REPORT of SUB-SURFACE DIRECTIONAL SURVEY

SIGNAL OIL AND GAS COMPANY

T. P. STATE #1 WELL NAME

LEA COUNTY, NEW MEXICO

JOB NUMBER WT2968 TYPE OF SURVEY MULTIPLE SHOT SURVEY DATE February 25, 1968

2. X

OFFICE Odessa, Texas

SURVEY BY

E. R. Warner

FORM &- 802 R1



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RECORD OF SURVEY

JOB NO. WT2968 DATE February 25, 1968

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RECORD OF SURVEY

JOB NO. WT2968 DATE February 25, 1968

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RECORD OF SURVEY

JOB NO. WT2968

DATE February 25, 1968

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TATION	MEASURED	DRIFT	TRUE	VERTICAL	COURSE	DRIFT	RECT	ANGULAR	COORDIN	ATES	-
	DEPTH	ANGLE	DEPTH	SECTION	DEVIATION	DIRECTION	NORTH	SOUTH	EAST	WEST	
61 62 63 64 65	10723 10817 10910 11004 11097	3°15' 2°45' 2°45' 2°45' 2°45'	11091 01		5 39 4 51 4 46 4 51 4 46	S 36 W S 37 W S 41 W S 49 W S 55 W		116 b6 119 66 123 03 125 99 128 55		23 46 26 17 29 10 32 50 36 15	
66 67 \$8 56 69 70 71	11191 11286 11364 11459 11569 11663 11749 11835 11929 12016 12136 12207 12302 124122 12506	2°45' 2°30' 1°45' 2°30' 2°30' 2°30' 2°45' 3°15' 1°30' 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2°	11562 57 12009 18 12498 97		4 51 4 14 2 38 4 14 4 80 4 51 4 88 2 25 3 28 3 04 4 19 2 48 3 32 2 40 1 65	S 59 W S 61 W S 16 W S 13 W S 15 W S 74 W S 85 W S 80 W S 87 W S 88 W S 88 W S 79 W S 73 W S 79 W S 73 W S 79 W N 82 W N 55 W		130 87 132 88 135 17 139 20 143 84 145 08 145 51 145 51 145 90 147 07 146 18 146 98 147 71 148 34 148 01 147 06		40 02 43 64 44 30 45 23 46 47 50 81 55 67 57 89 61 17 64 21 68 32 70 69 73 95 76 33 77 68	
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RECORD OF SURVEY

JOB NO. WT2968

DATE February 25, 1968

MEASURED DEPTH DRIFT ANGLE TRUE VERTICAL DEPTH VERTICAL SECTION COURSE DEVIATION DRIFT DIRECTION R E C T A N G U L A R 81 12604 45' 82 30' 12698 45' 45' 84 12698 30' 12966 1 28 N 87 W 146 99 81 12604 45' 84 30' 12966 1 28 N 87 W 146 99 82 551 E 147 51 84 12880 45' 85 12974 30' 12966 94 23 587 E 148 148 18 85 12974 30' 12966 94 CLOSURE: 166 96' S 26° 56' W 48 14	EAST	WEST 78 96 78 32 77 34 76 11 75 58	
82 12698 30' 83 12786 45' 84 12880 45' 85 12974 30' 12966 94		78 32 77 34 76 11	
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'Symbol of Service"

REPORT of SUB-SURFACE DIRECTIONAL SURVEY

Signal Oil & Gas Company COMPANY

T.P. State No. 1 WELL NAME

Lea County, New Mexico

JOB NUMBER

WT31068 - WT31168

TYPE OF SURVEY Controlled Directional Drilling

DATE March 2, 1968

SURVEY BY Bob Barker

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OFFICE Odessa, Texas



RECORD OF SURVEY

311

JOB NO. WT31068 - WT31168DATE March 2, 1968

CHECKED BY

STATION	MEASURED		DRIFT	TRUE VERTICAL DEPTH		VERTICAL SECTION			URSE	DRIFT	RECT	RC	COORDINATES					
			ANGLE					DEV	ATION	DIRECTION	NORTH	SOUTH		EAST		WEST		
	10157		40	-10, 1	5282	in the second												
56	10252		4°151					-		S 43 W		91 7		•		. 2	12	
57	10347		40					1.00	6 63	S 53 W		95 7	1			7	41	
58	10377		4°30'						2 35	5 40 W		97 5				8	93	
59	10440		30301	-					3 85	S 04 W		101 3				9	20	
60	10475		30151	10,47	0 08				1 98	S 10 W		103 3				. 8	86	
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, 61	10505		2°301	<u> </u>				j .	1 31	S 26 E		104 5	2			8	28	
62	10537		2°451						1 54	S 26 E	1.75	105 9	r			. 7	60	
63	10569		20301	[· ·				P	1 40	S 53 E		106 2				6	48	بە 1
64	10615	े	40151		. -				3 41	S 44 E		109 2				4	12	
65	10638		5°30'	10,63	2 74		• • •		2 20	S 42 E		110 8	4	÷ .		2	65	
		2								stand and the second								
66	10697		67151						6 42	S 70 E	:	113 0	3	3	39			
67	10728		6°15'						3 38	S 81 E		113 5	6	- 6	72			
68	10757		6 ⁰ 30'			n an			3 28	S 87 E		113 7		10	po j			
69	10789		6°451						3 76	N 87 E		113 5	3	13	75			
70	10848		70451	10,84	1 25			-	7 96	N 81 E		112 2	9 .	21	61			
						1 S.							. [2		
71	10878		8 ⁰ 15'		1		Ì		4 31	N 79 E		111 4	7		84			
72	10908		90301		ł				4 95	N 73 E		110 0		30	57			
73	10940		109151	ч. 1			1.	1	5 69	N 69 E		107 9	8	35	89			
74	10973		110451				- 1	 	6 72	N 67 E		105 3	5	42	08			
75	11004	1	129451	10.99	4 56	5.4 CS			6 84	N 65 E		102 4	. ~		28	:		
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RECORD OF SURVEY

JOB NOWT31068-WT31168 DATE March 2, 1968

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TRUE RECTANGULAR COORDINATES MEASURED DEPTH DRIFT VERTICAL COURSE DRIFT VERTICAL STATIO NORTH BOUTH EAST WEST 13945' 99 11 54 76 11035 7 37 N 63 E 85 841 11067 15 15' N 59 E 94 78 62 06 77 8 52 16 30' 78 11097 N 57 E 90 14 69 21 ÷ N 52 E 80 84 74 47 11144 189451 15 11 81 12 79 10 35 N 52 E 1 11, 128 80 89 28 19930 ' 80 11175 19945' 11207 81 10 81 N 51 E 67 67 97 68 20045' 210 20015' 82 11236 N 51 E 61 21 105 65 10 27 83 11273 N 51 E 52 87 115 95 13 26 . 11305 124 80 N 53 E 46 20 11 08 84 11337 20915' 85 39 69 133 76 11,309 84 11 08 N54 E 18 12 1 -----. 4 86 11368 20% 10 60 N 56 E 33 76 142 55 مين 159 40 18945' 21 96 11432 N 55E 87 20 57 17930' 16930' 16 👙 🖡 11463 N 55 E 88 9 32 12 52 173 84 i ... 7 95 89 11491 N 59 E 181 56 16915 8 58 90 11522 11,485 74 8 67 N 63 E .: a^{-1} نلاقه ا 8 15 7 56 15915' 91 11553 N 69 E 5 66 189 17 13º15' 12º 196 54 11586 N 77 E 3 96 92 203 15 93 11618 6 65 N 84 E 3 27 2 119301 212 43 11665 9 37 N 82 E 1 97 94 90 301 11,656 69 95 11697 5 28 N 84 E 1 42 217 68 ÷. -1 . FORM NO. D -103 .

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CHECKED BY



RECORD OF SURVEY

JOB NO.WT31068-WT31168 DATE March 2, 1968

CHECKED BY.....

STATION	MEASUR	ED	DRIFT	TRUE VERTICAL		VERTICAL		COURSE DEVIATION			DRIFT		RECTANGULAR				COORDINATES						
	DEPTH		ANGLE	DEPTI	i	SECTIO		DE		ON .	DI	RECI		NOF	TH	Ţ	SOUTH	1	EAST	•	. WES	T .	
95-	11738		8°451							24		83	F		-24		1	66	223	27			
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99	11963	1	150451				1.		10	. ₽		67		16					273	1		1	
100	12042		15 25' 17°45'	11 001						1					4		•			1			
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101	12154		180451		1				36	1 · · · ·		60		46		1 - E	÷		326			1	
102	12272		18 45' 17 ⁰ 45'				į		37	1 · · ·	4	61		64			19 -2 -586 1	-	359				õ
103	12341				1		12.		21	1		63		74				1. A	378				
104	12427		180301	· .					27	1 .		.63		86		- 1			402	1			
105	12578	10.	18° 45'	12,498	88				48	53	N	63	E	10	8 76				446	08			
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107	12975		180301	-					57			63			3 30			2	555				
108	13120	33121	180	13,014	43			143 -	44	81	N	66	E	18	1 52				596	55	2		
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